

54. (New) The network according to claim 53, wherein said notification means notifies the radio terminal and the time data after an authentication process in the registration sequence.

55. (New) A method of transferring data from a radio network to a radio terminal, comprising the steps of:

executing a registration sequence between the radio network and the radio terminal; and

transferring time data relating to the radio network from the radio network to the radio terminal in a registration sequence.

56. (New) The method according to claim 55, wherein the time data is transferred from the radio network to the radio terminal after an authentication process in the registration sequence.

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#### REMARKS

Applicants respectfully request reconsideration of the above-identified application in view of the foregoing amendments and the following remarks. Claims 1-36 are pending in this application. By this amendment, Applicants have canceled claims 2-6, 8-11, 13, 14, 17, 18, 29, 30 and 34, amended claims 1, 7, 12, 20, 21, 25-28 and 33 and added claims 37-56. Claims 1 and 20-36 are independent.

#### Rejections Under 35 U.S.C. §102(e):

Claims 1-3, 5-7, 9-11, 13-15, 17-24, 31 and 32 were rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 5,915,214 to Reece et al. ("Reece"). Claims 1, 20-24, 31 and 32 are independent.

Claims 25-30, 35 and 36 were rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 6,195,543 to Granberg (“Granberg”). Claims 25-30, 35 and 36 are independent.

**Reece – Claims 1, 20-24, 31 and 32:**

Claims 1, 20 and 21, as amended, require that “data relating to a communication line is received from a communication network after an authentication process”, which, in turn, occurs “after the transmission of a registration request”.

Reece teaches that a mobile device assigns available service providers a ranking according to price (col. 12, lines 22-23) before the mobile device sends a registration signal (col. 12, line 48).

That is, amended claims 1, 20 and 21 and Reece differ as to the order in which data relating to a communication line is received vis-à-vis the transmission of a registration request and the performance of any authentication process.

Accordingly, Applicants respectfully submit that amended claims 1, 20 and 21 are not anticipated by Reece.

Claims 22, 23 and 24 are directed to:

“receiving data on a communication line in accordance with a roaming sequence with a communication network; and

outputting a communication charge in accordance with the data received”.

In contrast, in Reece, communication charges are not output “in accordance with the data received ... on a communication line in accordance with a roaming sequence with a communication network”, as required by claims 22-24. Instead, in Reece, a mobile device receives per-minute rates broadcast by the central processing facility using one way transmitters. A mobile device that receives this rate information displays it to the user for use in selecting an optimal

service provider either for call initiation or during a call in progress. User selection of a service provider results in a connection being established over the service provider's base station transceivers (two way transmitters). Thus, the per-minute rates in Reece are not output "in accordance with the data received ... on a communication line in accordance with a roaming sequence with a communication network".

Accordingly, Applicants respectfully submit that claims 22-24 are not anticipated by Reece.

Claim 31 is directed to a radio network comprising:

"connecting means for connecting a radio terminal via a radio channel; and notification means for notifying the radio terminal in a registration sequence of data on a communication line for enabling the radio terminal to calculate a communication charge."

Reece, however, does not include "notifying the radio terminal in a registration sequence of data on a communication line for enabling the radio terminal to calculate a communication charge", as required by claim 31. Instead, in Reece, the central processing facility broadcasts per-minute rates to mobile devices using one way transmitters. The mobile devices display the rates to the users and a user can select an optimal provider. Upon user selection, the mobile device then sends a registration signal to the selected service provider. Thus, Reece does not "notify[] the radio terminal in a registration sequence of data on a communication line for enabling the radio terminal to calculate a communication charge".

Accordingly, Applicants respectfully submit that claim 31 is not anticipated by Reece.

Claim 32 is directed to a method for enabling a network to calculate a communication charge, comprising the steps of:

“executing a registration sequence between a radio network and a radio terminal;  
and

transferring data on a communication line in the registration sequence from the radio network to the radio terminal for enabling the radio terminal to calculate the communication charge.”

For the same reasons discussed above in connection with claim 31, Reece does not require “transferring data on a communication line in the registration sequence from the radio network to the radio terminal for enabling the radio terminal to calculate the communication charge”, as required by claim 32.

Accordingly, Applicants respectfully submit that claim 32 is not anticipated by Reece.

**Granberg - Claims 25-30, 35 and 36:**

Applicants have cancelled claims 29 and 30.

The common feature of amended claims 25-27 is “outputting a communication charge in accordance with data received from a communication network in a registration sequence,” and further “outputting time in accordance with the data received from the communication network”.

This feature is neither taught nor suggested by Granberg, which teaches a mobile station that displays a prospective call cost or the accumulated call cost during a call (col. 5, lines 35-37). Furthermore, Applicants note that Reece teaches that the time and data are contained in the top of the display screen (col. 13, lines 42-44). However, Reece does not teach outputting time in accordance with the data received from the communication network.

Accordingly, Applicants respectfully submit that claims 25-27, as amended, are not anticipated by either Granberg.

Applicants' invention, as defined by amended claim 28, is directed to a radio communication apparatus comprising "judging means for judging whether a request signal for requesting data relating to a communication line should be sent to a communication network".

Granberg teaches that a mobile station receives Advice of Charge (AoC) parameters from a base station and displays a call charge rate and/or accumulated charge using the received AoC parameters (col. 5, line 66 to col. 6, line 2). However, Granberg fails to teach or suggest that the mobile station comprises judging means as recited in amended claim 28.

Accordingly, Applicants respectfully submit that claim 28 is not anticipated by Granberg.

Claim 35 is directed to a radio network comprising:

"connecting means for connecting a radio terminal via a radio channel; and

notification means for notifying the radio terminal of data on a communication line for enabling the radio terminal to calculate a communication charge in a case where a connecting network which connects the radio network and another network connecting a communicating party has been specified."

Granberg fails to disclose "notifying the radio terminal of data on a communication line for enabling the radio terminal to calculate a communication charge in a case where a connecting network which connects the radio network and another network connecting a communicating party has been specified". Instead, the passage in Granberg cited in the Office Action as disclosing this feature (col. 5, line 65 to col. 6, line 23) merely discloses each mobile switching center conveying any change in charging conditions associated with an ongoing call to

a central control point so that an AoC subscriber can obtain the necessary information for calculating and displaying the charges associated with a prospective or ongoing call.

Accordingly, Applicants respectfully submit that claim 35 is not anticipated by Granberg.

Claim 36 is directed to a method for enabling a network to calculate a communication charge, comprising the steps of:

“executing an outgoing-call sequence between a radio network and a radio terminal; and

transferring data on a communication line from the radio network to the radio terminal for enabling the radio terminal to calculate the communication charge in a case where the outgoing-call sequence is executed without specifying a connecting network which connects the radio network and another network connecting a communicating party.”

However, Granberg fails to disclose “transferring data on a communication line from the radio network to the radio terminal for enabling the radio terminal to calculate the communication charge in a case where the outgoing-call sequence is executed without specifying a connecting network which connects the radio network and another network connecting a communicating party.” Instead, as discussed above in connection with claim 35, the passage in Granberg cited in the Office Action as disclosing this feature (col. 5, line 65 to col. 6, line 23) merely discloses each mobile switching center conveying any change in charging conditions associated with an ongoing call to the central control point so that an AoC subscriber can obtain the necessary information for calculating and displaying the charges associated with a prospective or ongoing call.

Accordingly, Applicants respectfully submit that claim 36 is not anticipated by Granberg.

**Rejections Under 35 U.S.C. §103:**

Claims 4, 8, 12 and 16 were rejected under 35 U.S.C. §103 as being unpatentable over Reece. Claim 33 was rejected under 35 U.S.C. §103 as being unpatentable over U.S. Patent No. 6,138,006 to Foti in view of Granberg. Claim 34 was rejected under 35 U.S.C. §103 as being unpatentable over Granberg in view of Foti. Claims 33 and 34 are independent.

Applicants have cancelled claim 34.

Claim 33, as amended, is directed to a radio network that notifies a radio terminal in a registration sequence of charge data relating to a communication charge and that also notifies the radio terminal of time data relating to the radio network.

Foti, Granberg and Reece fail to teach or suggest a radio network that notifies the radio terminal of time data relating to the radio network.

Accordingly, Applicants respectfully submit that claim 33 is patentable over Foti, Granberg and Reece.

**New Claims:**

Applicants have added claims 37-56, of which claims 45, 47, 49, 51, 53 and 55 are independent.

Claim 45 is directed to a radio network that transfers charge data relating to a communication charge from the radio network to the radio terminal in the registration sequence and that also transfers time data relating to the radio network from the radio network to the radio terminal.

Foti, Granberg and Reece fail to teach or suggest a radio network that transfers time data relating to the radio network from the radio network to the radio terminal.

Claims 47, 49, 51, 53 and 55 are directed to notifying a radio terminal of data relating to time, from a communication network, in a registration sequence.

This feature is neither taught nor suggested by Foti, Granberg and Reece.

**Dependent Claims:**

Applicants do not believe it necessary at this time to further address the rejections of the dependent claims as Applicants believe that the foregoing places the independent claims in condition for allowance. Applicants, however, reserve the right to address those rejections in the future should such a response be deemed necessary and appropriate.

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For the above-stated reasons, this application is respectfully asserted to be in condition for allowance, and an early and favorable examination on the merits is respectfully requested.

**AUTHORIZATION**

The Commissioner is hereby authorized to charge any additional fees which may be required by this response, or credit any overpayment to Deposit Account No. 13-4500, Order No. 1232-4604. A DUPLICATE COPY OF THIS PAPER IS ATTACHED.

In the event that an extension of time is required, or which may be required in addition to that requested in a petition for an extension of time, the Commissioner is requested to grant a petition for that extension of time which is required to make this response timely and is hereby authorized to charge any fee for such an extension of time or credit any overpayment for an



extension of time to Deposit Account No. 13-4500, Order No. 1232-4604. A DUPLICATE COPY OF THIS PAPER IS ATTACHED.

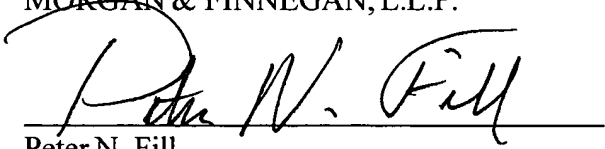
In the event that a telephone conference would facilitate the examination of this application in any way, the Examiner is invited to contact the undersigned at the number provided.

Respectfully submitted,

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Dated: March 20, 2002

By:

A handwritten signature in black ink, appearing to read "Peter N. Fill", is written over a horizontal line.

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APPENDIX

1. (Amended) A radio communication apparatus comprising:

[receiving means for receiving data on a communication line in accordance with a registration sequence with a communication network] communicating means for transmitting a registration request to a communication network, and performing communication for an authentication process with the communication network after the transmission of the registration request; and

output means for outputting a communication charge in accordance with [the] data [received by said receiving means] relating to a communication line, wherein the data relating to the communication line is received from the communication network after the authentication process.

7. (Amended) The apparatus according to claim 1, wherein said [receiving] communicating means receives time data [on] relating to the communication line.

12. (Amended) The apparatus according to claim 1, wherein said [receiving] communicating means receives country data [on] relating to the communication line.

20. (Amended) A method of outputting a communication charge from a radio communication apparatus, comprising the steps of:

[receiving data on a communication line in accordance with a registration sequence with a communication network] transmitting a registration request to a communication network; [and]

performing communication for an authentication process with the communication network after the transmission of the registration request; and

outputting a communication charge in accordance with [the] data [received at said receiving step] relating to a communication line, wherein the data relating to the communication line is received from the communication network after the authentication process.

21. (Amended) A memory for storing a program comprising the steps of:  
[receiving data on a communication line in accordance with a registration sequence with a communication network] transmitting a registration request to a communication network; [and]

performing communication for an authentication process with the communication network after the transmission of the registration request; and

outputting a communication charge in accordance with [the] data [received at said receiving step] relating to a communication line, wherein the data relating to the communication line is received from the communication network after the authentication process.

25. (Amended) A radio communication apparatus comprising:  
receiving means for receiving data [on a communication line in accordance with an incoming call] from a communication network; and

output means for outputting a communication charge in accordance with the data received [by said receiving means] from the communication network in a registration sequence, and for outputting time in accordance with the data received from the communication network.

26. (Amended) A method for outputting a communication charge, comprising the steps of:

receiving data [on] from a communication [line in accordance with an incoming call] network; [and]

outputting a communication charge in accordance with the data received [at said receiving step] from the communication network in a registration sequence; and  
outputting time in accordance with the data received from the communication network.

27. (Amended) A memory for storing a program comprising the steps of:  
receiving data [on a communication line in accordance with an incoming call]  
from a communication network; [and]

outputting a communication charge in accordance with the data received [at said receiving step] from the communication network in a registration sequence; and  
outputting time in accordance with the data received from the communication network.

28. (Amended) A radio communication apparatus comprising:  
sending means for sending an outgoing-call signal to a communication network;  
judging means for judging whether a request signal for requesting data [on]  
relating to a communication line should be sent to the communication network by said sending means, this depending upon whether the outgoing-call signal includes data for specifying a connecting network which connects the communication network and another network [connecting] to which a communicating party is connected; [and]

receiving means for receiving the data relating to the communication line transmitted from the communication network in response to the request signal; and

output means for outputting a communication charge in accordance with the data on the communication line received by said receiving means.

33. (Amended) A radio network comprising:

connecting means for connecting a radio terminal via a radio channel; and

notification means for notifying the radio terminal [in accordance with a collect call of data on a communication line for enabling the radio terminal to calculate a communication charge] in a registration sequence of charge data relating to a communication charge, and for notifying the radio terminal of time data relating to the radio network.